88888888 88888888 888	88888 88888	AAAAAAAA AAAAAAAA	\$	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
888	888 888	AAA AAA	SSS	RRR RRR	III	LLL
BBB	BBB	AAA AAA	SSS	RRR RRR	İİİ	iii
888 888	BBB	AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	888	AAA AAA	SSS	RRR RRR	III	LLL
BBB	888	AAA AAA	SSS	RRR RRR	III	rrr
88888888 88888888		AAA AAA	\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	İİİ	rir
8888888	RARA	AAA AAA	\$\$\$\$\$\$\$\$\$	RRRRRRRRRRRRR	III	LLL
888	BBB	AAAAAAAAAAAA	SSS	RRR RRR	iii	iii
BBB	BBB	AAAAAAAAAAAA	SSS	RRR RRR	iii	iii
BBB	BBB	AAAAAAAAAAAA	SSS	RRR RRR	TTT	III
888	BBB	AAA AAA	SSS	RRR RRR	TTT	LLL
BBB	BBB	AAA AAA	SSS	RRR RRR	III	rrr
888 8888888	BBB	AAA AAA	288	RRR RRR	III	LLL
8888888		AAA AAA	SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	RRR RRR	111	
8888888		AAA AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR RRR	iii	

BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$	22222222 22222222 22222222 22222222 2222	000000 00 00 00 00	\$	
		\$				

16

18

40

444444444555555555

Page

```
0002
0003
0004
```

MODULE BASSCLOSE ( IDENT = '1-008'

! Close a BASIC file ! File: BASCLOSE.B32 EDIT:MDL1008

BEGIN

..

.

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FACILITY: BASIC-PLUS-2 1/0 SUPPORT

ABSTRACT:

This module contains the routine which closes a file for a BASIC program.

ENVIRONMENT: VAX-11 User Mode

AUTHOR: John Sauter, CREATION DATE: 16-FEB-1979

MODIFIED BY:

1-001 - Original. JBS 16-FEB-1979
1-002 - Use BASIOERR.REQ to define the I/O error codes. JBS 20-FEB-1979
1-003 - Set up ISB\$A USER\_FP. JBS 25-JUL-1979
1-004 - Purge the I/O buffer explicitly, since OTS\$\$CLOSE\_FILE doesn't any more. JBS 27-AUG-1979
1-005 - If the file has had more than one stream connected to it, disconnect the other streams. JBS 28-SEP-1979
1-006 - Call BAS\$FIELD\_CLOSE to remove fielded variables from the symbol table, in case the compiler doesn't. PLL 2-JUN-81
1-007 - Remove the call to BAS\$FIELD\_CLOSE, as it is unshared and BAS\$CLOSE is shared. PL 16-Jun-81
1-008 - call BAS\$FIELD\_CLOSE now, as all BAS\$ entry points are now shared.
MDL 26-Mar-1984

BASSCLOSE 1-008 D 7 16-Sep-1984 00:07:54 14-Sep-1984 11:54:47

VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASCLOSE.B32:1

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58

0058 1 0059 1 !<BLF/PAGE>

•

4

```
SWITCHES:
                        SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                          LINKAGES:
                        REQUIRE 'RTLIN: OTSLNK':
                                                                               ! Define all the linkages
                          TABLE OF CONTENTS:
                        FORWARD ROUTINE
                            BASSCLOSE : NOVALUE:
                                                                               ! Close a file from BASIC
                          INCLUDE FILES:
                        REQUIRE 'RTLIN:RTLPSECT';
                                                                               ! Macros for defining psects
                        REQUIRE 'RTLML:OTSLUB';
                                                                               ! Define symbols in the LUB
                        REQUIRE 'RTLML:OTSISB';
                                                                               ! Define symbols in the ISB
                        REQUIRE 'RTLIN: BASIOERR';
                                                                               ! Define the I/O error codes.
                        LIBRARY 'RTLSTARLE';
                                                                               ! Define system symbols
                          MACROS:
                                 NONE
                          EQUATED SYMBOLS:
                                 NONE
                          PSECTS:
                        DECLARE_PSECTS (BAS);
                                                                               ! Declare psects for BAS$ facility
                          OWN STORAGE:
                                 NONE
                          EXTERNAL REFERENCES:
                        EXTERNAL ROUTINE

BAS$$CB_PUSH : JSB_CB_PUSH NOVALUE,

BAS$$CB_POP : JSB_CB_RET NOVALUE,

BAS$$STOP_10 : NOVALUE,
                                                                                 Load register CCB
Done with register CCB
116
                                                                                ! signals fatal I/O error
```

BASSCLOSE 1-008		F 7 16-Sep-1984 00:07:54 14-Sep-1984 11:54:47	VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASCLOSE.B32;1
118 119 120 121 122 123 124 125 126 127 128 129	0997 1 BAS\$\$PUR_IO_CLO : CALL_CCB, 0998 1 BAS\$\$FIELD_CCOSE : NOVACUE, 0999 1 BAS\$\$CLOSE_ALL : NOVALUE, 1000 1 OTS\$\$CLOSE_FILE; 1001 1 1002 1 !+ 1003 1 ! The following are the error codes us 1004 1 !- 1005 1 1006 1 EXTERNAL LITERAL 1007 1 BAS\$K_PROLOSSOR : UNSIGNED (8); 1008 1 1009 1	! Close all fi ! RMS Close a	ed variables on this channel les with a certain IFI file

Page 4

GLOBAL REGISTER
CCB = K\_CCB\_REG : REF BLOCK [, BYTE]; FMP : REF BLOCK [, BYTE]; FMP = .FP; For compatability with the PDP-11 implementations, an attempt to CLOSE channel 0 is a no-operation.

VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASCLOSE.B32:1

IF (.CHANNEL NEQ 0) THEN BEGIN

Set up register CCB to point to the LUB/ISB/RAB for this channel.

```
H 7
BASSCLOSE
1-008
                                                                                    16-Sep-1984 00:07:54
14-Sep-1984 11:54:47
                                                                                                                    VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASCLOSE.B32:1
                                                                                                                                                                   Page
                                          BASSSCB_PUSH (.CHANNEL, LUBSK_LUN_MIN);
                     1067
1068
1069
1070
1071
1072
1073
1074
1075
1076
1077
   CCB [ISB$A_USER_FP] = .FMP [SF$L_SAVE_FP];
                                  Purge the I/O buffer. This will only happen on a non-forcible device
                                  on which the last PRINT statement ended with a comma or semicolon.
                                          BAS$$PUR_IO_CLO ();
                                  get rid of any fIELDed variables on this channel, they are no longer valid.
                                          IF .CCB [LUB$V_FIELD_USE]
                     1080
1081
1082
1083
1084
1085
1086
1087
1088
1090
1091
1093
1095
1096
1097
1098
1099
1100
                                               BAS$FIELD_CLOSE (.CHANNEL);
                                 RMS CLOSE the file, if it is open.
                                          IF (.CCB [LUB$V_OPENED])
                                          THEN
                                               BEGIN
                               ! If the file might have other streams connected, disconnect them.
                                               IF (.CCB [LUB$V_M_STR_C]) THEN BAS$$CLOSE_ALL (.CCB [LUB$W_IFI]);
                                               IF ( NOT OTS$$CLOSE_FILE ()) THEN BAS$$STOP_IO (BAS$K_IOERR_REC);
                                               END:
                                  We are done with register CCB. If this is the only use of this channel
                     1101
                                 (as is likely), then the LUB/ISB/RAB will be deallocated.
                     1102
1103
1104
1105
1106
                                          BAS$$CB_POP ();
                                          END:
                                     END:
                                                                                               ! end of BAS$CLOSE
                                                                                                 .TITLE
                                                                                                           BAS$CLOSE
                                                                                                           BASSSCB_PUSH, BASSSCB_POP
BASSSSTOP_IO, BASSSPUR_IO_CLO
BASSFIELD_CLOSE
BASSSCLOSE_ALL, OTSSSCLOSE_FILE
                                                                                                 .EXTRN
                                                                                                  .EXTRN
                                                                                                 .EXTRN
                                                                                                           BASSK_PROLOSSOR
                                                                                                 .PSECT
                                                                                                            _BAS$CODE,NOWRT, SHR, PIC,2
                                                                              00000
00002
00005
00009
                                                                                                                                                                        1010
1054
1060
                                                                                                 .ENTRY
                                                                                                            BASSCLOSE, Save R2,R3,R11
                                                                          DO
DO
13
                                                   53
                                                                                                 MOVL
                                                                                                            FP, FMP
CHANNEL, R2
                                                                                                 MOVL
                                                                                                 BEQL
```

BASSC 1-008	LOSE					I 7 16-Sep-1 14-Sep-1	984 00:07:5 984 11:54:4	VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASCLOSE.B32;1	Page 7 (3)
		09 08	0000000G	O0000000G  OC  AB  OC  AB  OC  AB  OC  AB  OC  AB  OC  AB  OC  AB  OC  AB  OC  OC  OC  OC  OC  OC  OC  OC  OC  O	A3 D0 000 00 FB 000 06 E1 000 52 DD 000 01 FB 000 AB E9 000 03 E1 000 AB 3C 000 01 FB 000 01 FB 000 01 CE 000 01 FB 000	0D 13 19 20 25 27 28 27 28 28: 38 49 46 46 46 46 46 46 46 46 46 46 46 46 46	CALLS #	AS\$\$CB_PUSH 2(FMP), -180(CCB) 70. BAS\$\$PUR_IO_CLO 7695(CCB), 1\$ 71. BAS\$FIELD_CLOSE 731(CCB), 2\$ 74. CCB), 2\$ 74. BAS\$\$CLOSE_ALL 70. OTS\$\$CLOSE_FILE 71(SP) 71. BAS\$\$CTOP_IO 8AS\$\$CB_POP	1067 1068 1073 1078 1080 1086 1093 1095
; Rou	tine Size:	93 bytes,	Routine	Base: _BAS\$C	DDE + 0000				
: 225 : 23 : 23 : 23	9 0 1 2 2	1107 1 1108 1 END 1109 1 1110 0 ELU					! end of mo	dule BAS\$CLOSE	
				PSECT SUMMARY	,				
	Name		Bytes			Attribute	s		
: _B/	AS\$CODE			93 NOVEC, NOV	JRT, RD, I	XE, SHR	, LCL, RE	L. CON. PIC.ALIGN(2)	
1:			Librar	y Statistics					
	file			Total	0/1110000	Percent	Pages Mapped	Processing Time	
: _8	255\$DUA28:[	SYSL IB]STAR	LET.L32;1	9776	1	0	581	00:01.2	

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:BASCLOSE/OBJ=OBJ\$:BASCLOSE MSRC\$:BASCLOSE/UPDATE=(ENH\$:BASCLOSE)

; Size: 93 code + 0 data bytes ; Run Time: 00:09.0 ; Elapsed Time: 00:23.0 ; Lines/CPU Min: 7375 ; Lexemes/CPU-Min: 41534 ; Memory Used: 119 pages ; Compilation Complete

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